WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 06/14/13
API #: 035-2471

Farm name: [redacted] SYDNOR Operator Well No.: 1

LOCATION: Elevation: 933' Quadrangle: RIPLEY 7.5

District: WASHINGTON County: JACKSON
Latitude: ____ Feet South of 38° Deg. 47' Min. 30" Sec.
Longitude ____ Feet West of 81 Deg. 32 Min. 07.9 Sec.

Company: L K ENERGIES C/O LIPPIZAN PETROLEUM, INC

Address: PO BOX 98 KENNA WV 25248	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	9 5/8"		258'	CTS
Agent: ROBERT D LAW, JR	7"		1987'	CTS
Inspector:	4 1/2"		2750'	60 SACKS
Date Permit Issued: 11/12/99				
Date Well Work Commenced: DEC 1999				
Date Well Work Completed: DEC 1999				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☒ Cable ☐ Rig ☐				
Total Vertical Depth (ft):	276			
Total Measured Depth (ft):	2750			
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) N/A				

REPORT FILED BY BOB WATTHEY

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation BEREA Pay zone depth (ft) [redacted] 2735'
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 60 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

I CANNOT GUARANTEE THE ACCURACY OF THIS INFO. THIS IS THE BEST INFO I CAN GATHER

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

6-14-13
Date

35-02471

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GAMMA, INDUCTION TEMPERATURE

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

2729- 2735' - PERFORATED - 24 HOLES
STIMULATED WITH 1000bbl WATER AND
20,000 lbs of SAND.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth 2729, 2735 Bottom Depth
Surface:

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 06/14/13
API #: 035-02472

Farm name: SYDNOR Operator Well No.: 2

LOCATION: Elevation: 806 ft. Quadrangle: RIPLEY 7.5

District: WASHINGTON County: JACKSON
Latitude: ____ Feet South of 38 Deg. 47 Min. 30 Sec.
Longitude ____ Feet West of 81 Deg. 37 Min. 11.7 Sec.

Company: LK ENERGIES, INC C/O LIPPIZAN PETROLEUM, INC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	9 5/8"		250ft.	CTS
Agent: Bob Matthey Jr.	7"		1850ft.	CTS
Inspector: LARRY PARRISH	4 1/2"		2600	50 SACKS
Date Permit Issued: 11/12/99				
Date Well Work Commenced: DEC. 1999				
Date Well Work Completed: DEC 1999				
Verbal Plugging:				
Date Permission granted on: 11/12/99				
Rotary [X] Cable [ ] Rig [ ]				
Total Vertical Depth (ft):	2620'			
Total Measured Depth (ft):	2610'			
Fresh Water Depth (ft.):	N/A			
Salt Water Depth (ft.):	N/A			
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): NO				
Void(s) encountered (N/Y) Depth(s) NO				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation BEREA Pay zone depth (ft) 2560 ft.
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 150 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure 430 psig (surface pressure) after 12 Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I cannot guarantee the accuracy of this information. This is the best information I can gather

Signature

6-14-13
Date

35-02472

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GAMMA RAY, INDUCTION, TEMPERATURE

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

2560'-2566' - STIMULATED WITH 20,000 POUNDS OF SAND AND 1000bbl of water

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: BEREA Top Depth 2560' 2566 Bottom Depth Surface:

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Rev (5-01)

DATE: March 11, 2009
API #: 47-013-04613

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

ORIGINALLY mailed 6/1/10

Well Operator's Report of Well Work

Farm name: Bruce Jett Operator Well No.: Jett#2

LOCATION: Elevation: 778' Quadrangle: Tariff

District: Washington County: Calhoun
Latitude: 8150 Feet South of 38 Deg. 45 Min. 00 Sec.
Longitude 5800 Feet West of 81 Deg. 7 Min. 30 Sec.

Company: Boggs Natural Gas, FLP

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1248 Charleston Road	13-3/8"			
Spencer, WV 25276				
Agent: Harry C. Boggs	9-5/8"			
Inspector:				
Date Permit Issued: 6/9/06	7"	1672'	1672'	
Date Well Work Commenced: 5/07/08				
Date Well Work Completed: 5/14/08	4-1/2"	5469'	5469'	
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 5509				
Fresh Water Depth (ft.): 1076				
Salt Water Depth (ft.): 1575				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Harry C Boggs
By: Agent
Date: March 11, 2009

13-04613

FORMATIONS:

0 - 60	Soil & Shale
60 - 200	Sandy Shale
200 - 230	Sand & Shale
230 - 265	Red Rock
265 - 390	Red Rock & Shale
390 - 1100	Sand & Shale
1100 - 1182	Salt Sand (Wet)
1182 - 1500	Sand & Shale
1500 - 1597	Salt & Sand (2" water)
1597 - 1806	Sand & Shale
1806 - 1836	Little Lime
1836 - 1840	Shale & Sand
1840 - 1870	Big Lime
1870 - 2350	Sand & Shale
2350 - 5509	Shale (T.D)

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 5/8/2013
API #: 47-103-02766

Farm name: John W. & Florence E. Kilcoyne Operator Well No.: 513828

LOCATION: Elevation: 860' Quadrangle: Big Run

District: Grant County: Wetzel, WV
Latitude: 8,360' Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 5,205' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	26	80	80	126
Agent: Cecil Ray	20	318	318	590
Inspector: David Scranage	13 3/8	859	859	860
Date Permit Issued: 6/13/2012	9 5/8	3,062	3,062	1,714
Date Well Work Commenced: 6/25/2012	5 1/2	11,657	11,657	1,889
Date Well Work Completed: 9/8/2012				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,051'				
Total Measured Depth (ft): 11,657'				
Fresh Water Depth (ft.): 235'				
Salt Water Depth (ft.): 1,511'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 400', 585', 614'				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,012
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 8,784 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure 2,900 psig (surface pressure) after 96 Hours

Second producing formation No second formation. Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

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Signature

5/8/2013
Date

103-02766

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes: MWD Gamma, Gyro, & CBL Logs

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s): Pumped solid cement plug from 6,125' to 5,778'

Formations Encountered: Top Depth / Bottom Depth
Surface:

Sand/Shale / 0 / 400 / 400 -- Coal / 400 / 410 / 10 -- Sand/Shale / 410 / 585 / 175 --
Coal / 585 / 596 / 11 -- Sand/Shale / 596 / 614 / 18 -- Coal / 614 / 625 / 11 -- Sand/Shale / 625 / 3,309 / 2,694
Warren / 3,309 / 3,358 / 48 -- B-5 / 3,358 / 3,462 / 104 -- SPEECHLEY / 3,462 / 3,873 / 411
BALLTOWN A / 3,873 / 4,340 / 466 -- RILEY / 4,340 / 4,985 / 645 -- BENSON / 4,985 / 5,326 / 340 --
ALEXANDER / 5,326 / 6,554 / 1,227 -- RHINESTREET / 6,542 / 6,554 / 12 --
SONYEA / 6,554 / 6,724 / 169 -- MIDDLESEX / 6,724 / 6,776 / 52 --
GENESSEE / 6,776 / 6,859 / 83 -- GENESEO / 6,859 / 6,893 / 33 --
TULLY / 6,893 / 6,922 / 29 -- HAMILTON / 6,922 / 7,012 / 89 --
MARCELLUS SHALE / 7,012/ 7,051 / 39 --

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EQT WR-35	Completion	Attachment	Well 513828	Treatment	Summary
Stage 1	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 2/7/2013	**From / To** 11495 - 11585	**# of perfs**	**BD Press** 0.00	**ATP Psi** 8,582.00	**SIP Detail** 5 Min: 3734 10 Min: 3641 15 Min: 3598
Avg Rate 65.20	**Max Press PSI** 9,055.00	**ISIP** 4,354.00	**Frac Gradient** 1.05		
Sand Proppant 197,232.00	**Water-bbl** 10,009.00	**SCF N2**	**Acid-Gal** 3,000.00		
Stage 2	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 2/8/2013	**From / To** 11345 - 11467	**# of perfs**	**BD Press** 7,402.00	**ATP Psi** 8,389.00	**SIP Detail** 5 Min: 4222 10 Min: 3923 15 Min: 3767
Avg Rate 82.40	**Max Press PSI** 8,782.00	**ISIP** 5,341.00	**Frac Gradient** 1.19		
Sand 203,375.00	**Water-bbl** 5,378.00	**SCF N2**	**Acid-Gal** 750.00		
Stage 3	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 2/8/2013	**From / To** 11195 - 11317	**# of perfs**	**BD Press** 6,407.00	**ATP Psi** 8,300.00	**SIP Detail** 5 Min: 5045 10 Min: 4621 15 Min: 4340
Avg Rate 91.30	**Max Press PSI** 8,831.00	**ISIP** 5,800.00	**Frac Gradient** 1.26		
Sand 200,143.00	**Water-bbl** 5,283.00	**SCF N2**	**Acid-Gal** 750.00		
Stage 4	**Formation** MARCELLUS	**Frac Type** Slickwater			
Date 2/8/2013	**From / To** 11045 - 11167	**# of perfs**	**BD Press** 7,895.00	**ATP Psi** 8,307.00	**SIP Detail** 5 Min: 4902 10 Min: 4519 15 Min: 4275
Avg Rate 100.10	**Max Press PSI** 8,817.00	**ISIP** 5,173.00	**Frac Gradient** 1.17		
Sand 200,221.00	**Water-bbl** 5,179.00	**SCF N2**	**Acid-Gal** 750.00		

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Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/8/2013	10895 - 11017		6,161.00	8,554.00	5 Min: 5423
					10 Min: 5098
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4821
97.00	8,750.00	6,035.00	1.29		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,331.00	5,193.00		750.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/9/2013	10745 - 10867		6,008.00	8,049.00	5 Min: 5221
					10 Min: 4910
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4660
100.10	8,247.00	5,792.00	1.26		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,198.00	5,165.00		750.00		

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/9/2013	10445 - 10567		6,852.00	8,056.00	5 Min: 5077
					10 Min: 4682
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4433
100.30	8,458.00	5,875.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,603.00	5,634.00		750.00		

Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/9/2013	10567 - 11445		6,047.00	8,044.00	5 Min: 4711
					10 Min: 4383
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4[illegible]
99.80	8,374.00	5,437.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,799.00	5,277.00		750.00		

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Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/9/2013	10295 - 10417		5,941.00	7,873.00	5 Min: 4917
					10 Min: 4555
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4321
99.00	8,297.00	5,570.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,615.00	5,262.00		750.00		

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/10/2013	10145 - 10267		6,283.00	8,435.00	5 Min: 5461
					10 Min: 5116
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4833
99.90	8,750.00	6,184.00	1.31		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,245.00	5,181.00		750.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/10/2013	9995 - 10117		7,376.00	8,474.00	5 Min: 5348
					10 Min: 4970
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4697
94.00	8,816.00	5,976.00	1.28		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,309.00	5,148.00		750.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/10/2013	9845 - 9967		6,680.00	8,449.00	5 Min: 5223
					10 Min: 4936
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4746
88.90	8,781.00	5,917.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,784.00	5,481.00		750.00		

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Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/10/2013	9695 - 9817		6,893.00	8,521.00	5 Min: 5442
					10 Min: 5210
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5039
92.40	8,796.00	5,894.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,804.00	5,385.00		750.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/10/2013	9545 - 9667		7,393.00	8,513.00	5 Min: 5141
					10 Min: 4888
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4683
92.90	8,711.00	5,656.00	1.24		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,449.00	5,218.00		750.00		

Stage	Formation	Frac Type			
15	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/10/2013	9395 - 9517		7,002.00	8,505.00	5 Min: 5341
					10 Min: 5075
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4874
90.40	8,731.00	5,775.00	1.25		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,758.00	5,106.00		750.00		

Stage	Formation	Frac Type			
16	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/11/2013	9245 - 9367		7,051.00	8,456.00	5 Min: 5057
					10 Min: 4700
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4540
93.20	8,688.00	5,613.00	1.23		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,560.00	5,296.00		750.00		

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Stage	Formation	Frac Type			
17	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/11/2013	9095 - 9217		6,809.00	8,505.00	5 Min: 5469
					10 Min: 5199
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5014
95.90	8,869.00	5,922.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
198,410.00	5,342.00		750.00		

Stage	Formation	Frac Type			
18	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/11/2013	8945 - 9067		6,625.00	8,461.00	5 Min: 5460
					10 Min: 5200
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4969
93.90	8,740.00	5,606.00	1.23		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,506.00	5,235.00		750.00		

Stage	Formation	Frac Type			
19	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/11/2013	8795 - 8917		6,799.00	8,491.00	5 Min: 5021
					10 Min: 4728
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4527
98.80	8,788.00	5,513.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,779.00	5,213.00		750.00		

Stage	Formation	Frac Type			
20	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/12/2013	8645 - 8767		6,760.00	8,478.00	5 Min: 5530
					10 Min: 5289
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5116
99.30	8,747.00	5,868.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,787.00	5,113.00		750.00		

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Stage	Formation	Frac Type			
21	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/12/2013	8495 - 8617		6,458.00	8,305.00	5 Min: 5521
					10 Min: 5290
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5077
100.00	8,561.00	6,035.00	1.29		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
190,890.00	5,163.00		750.00		

Stage	Formation	Frac Type			
22	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/12/2013	8345 - 8467		6,281.00	8,554.00	5 Min: 5256
					10 Min: 4940
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4733
84.60	9,406.00	6,048.00	1.29		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,557.00	7,718.00		1,250.00		

Stage	Formation	Frac Type			
23	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/12/2013	8195 - 8317		6,146.00	8,340.00	5 Min: 5587
					10 Min: 5309
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5132
97.80	8,527.00	6,033.00	1.29		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,443.00	5,194.00		750.00		

Stage	Formation	Frac Type			
24	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/12/2013	8045 - 8167		6,648.00	8,347.00	5 Min: 5536
					10 Min: 5278
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 5069
99.40	8,617.00	6,141.00	1.31		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,887.00	5,020.00		750.00		

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Stage	Formation	Frac Type			
25	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/13/2013	7895 - 8017		6,494.00	8,045.00	5 Min: 5455
					10 Min: 5162
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4970
93.30	9,661.00	5,913.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,185.00	6,786.00		750.00		

Stage	Formation	Frac Type			
26	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/13/2013	7745 - 7867		6,800.00	8,110.00	5 Min: 5071
					10 Min: 4750
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4570
98.70	8,642.00	5,847.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,160.00	4,842.00		750.00		

Stage	Formation	Frac Type			
27	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
2/13/2013	7595 - 7717		7,799.00	8,120.00	5 Min: 5086
					10 Min: 4649
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4413
100.00	8,801.00	6,214.00	1.32		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,744.00	4,903.00		750.00		

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2/28/2013
API #: 47-10302700

Farm name: Sharon Scyoc Operator Well No.: 513980

LOCATION: Elevation: 1,474 Quadrangle: Pine Grove

District: Grant County: Wetzel, WV
Latitude: 39.565320 Feet South of ____ Deg. 39 Min. 35 Sec.
Longitude -80.626376 Feet West of West Deg. 80 Min. 37 Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	26	70	70	86.49
Agent: Cecil Ray	13 3/8	850.6	850.6	-
Inspector: Derek Haught	9 5/8	341.1	341.1	-
Date Permit Issued: 10/21/2011	5 1/2	14,780	14,780	850
Date Well Work Commenced: 3/27/2012				
Date Well Work Completed: 6/27/2012				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,506				
Total Measured Depth (ft): 14,788				
Fresh Water Depth (ft.): 340, 736				
Salt Water Depth (ft.): No show of salt water				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 409, 1111, 1151				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,456
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow *see letter MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure *see letter psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

2/28/2013
Date

103-02700

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s):

N/A

Formations Encountered: Surface: Top Depth / Bottom Depth

Sand & Shale / 0 / 246 / 246 -- Red Rock / 246 / 250 / 4 -- Sand & Shale / 250 / 409 / 159 -- Coal / 409 / 415 / 6 --
Sand & Shale / 415 / 557 / 142 -- Red Rock / 557 / 565 / 8 -- Sand & Shale / 565 / 765 / 200 -- Red Rock / 765 / 783 / 18 --
Sand & Shale / 783 / 1054 / 271 -- Red Rock / 1054 / 1062 / 8 -- Sand & Shale / 1062 / 1111 / 49 -- Coal / 1111 / 1115 / 4 --
Sand & Shale / 1115 / 1151 / 36 -- Coal / 1151 / 1170 / 19 -- Sand & Shale / 1170 / 1367 / 197 -- Red Rock / 1367 / 1394 / 27 --
Sand & Shale / 1394 / 1454 / 60 -- Red Rock / 1454 / 1465 / 11 -- Sand & Shale / 1465 / 2306 / 841 -- Maxton / 2306 / 2524 / 218 --
Big Lime / 2524 / 2650 / 126 -- Big Injun / 2650 / 2795 / 145 -- Weir / 2795 / 2994 / 199
Gantz / 2994 / 3114 / 120 -- 50F / 3114 / 3190 / 76 -- 30F / 3190 / 3242 / 52 -- Gordon / 3242 / 3324 / 82 --
4th / 3324 / 3450 / 126 -- Bayard / 3450 / 3902 / 452 -- Warren / 3902 / 4053 / 151 -- Speechley / 4053 / 4898 / 845 --
Riley / 4898 / 5566 / 668 -- Benson / 5566 / 5882 / 316 -- Alexander / 5882 / 7034 / 1152 --
Sonyea / 7034 / 7202 / 168 -- Middlesex / 7202 / 7242 / 40 -- Genessee / 7242 / 7326 / 84 --
Geneseo / 7326 / 7351 / 25 -- Tully / 7351 / 7376 / 25 -- Hamilton / 7376 / 7456 / 80 --
Marcellus Blk Shale / 7456 / 7506 / 50 -- Onondaga / 7506

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/6/2012	14599 - 14721		8,395.00	8,658.00	5 Min: 0
					10 Min: 0
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 0
58.00	9,267.00	4,878.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
22,793.00	6,971.00		3,000.00		
Stage	**Formation**	**Frac Type**			
2	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/6/2012	14428 - 14550		6,221.00	8,007.00	5 Min: 3649
					10 Min: 3412
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3303
93.10	8,638.00	4,642.00	1.05		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
204,380.00	5,756.00		750.00		
Stage	**Formation**	**Frac Type**			
3	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/7/2012	14278 - 14400		6,956.00	8,073.00	5 Min: 3901
					10 Min: 3571
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3309
91.30	8,474.00	4,996.00	1.1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
204,020.00	5,543.00		750.00		

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Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/7/2012	14128 - 14250		6,957.00	8,206.00	5 Min: 4779
					10 Min: 4306
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3992
98.80	8,484.00	5,650.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,590.00	5,448.00		750.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/7/2012	13978 - 14100		6,266.00	8,330.00	5 Min: 4110
					10 Min: 3748
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3573
98.30	8,821.00	4,900.00	1.08		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,560.00	4,823.00		750.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/7/2012	13828 - 13950		5,850.00	8,537.00	5 Min: 3652
					10 Min: 3453
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3338
96.00	8,821.00	4,442.00	1.02		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,560.00	5,012.00		750.00		

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/7/2012	13678 - 13800		6,093.00	8,119.00	5 Min: 3562
					10 Min: 3383
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3275
99.50	8,630.00	4,312.00	1.01		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,950.00	5,642.00		750.00		

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Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/7/2012	13528 - 13650		6,541.00	8,214.00	5 Min: 3633
					10 Min: 3437
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3343
96.70	8,451.00	4,362.00	1.01		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,660.00	5,446.00		750.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/8/2012	13378 - 13450		6,590.00	8,392.00	5 Min: 3833
					10 Min: 3615
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3493
87.80	9,048.00	4,970.00	1.09		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,440.00	5,623.00		750.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/8/2012	13228 - 13350		6,023.00	8,186.00	5 Min: 3710
					10 Min: 3476
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3379
100.00	8,497.00	4,545.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
207,730.00	5,049.00		750.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/8/2012	13078 - 13200		6,363.00	8,162.00	5 Min: 5174
					10 Min: 3745
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3643
98.00	10,062.00	5,918.00	0		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
207,256.00	4,899.00		750.00		

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Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/9/2012	12928 - 13050		5,745.00	8,013.00	5 Min: 4188
					10 Min: 3797
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3587
99.90	8,904.00	4,968.00	1.09		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
207,730.00	5,002.00		750.00		

Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/9/2012	12778 - 12900		5,959.00	8,098.00	5 Min: 3973
					10 Min: 3696
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3547
100.90	8,660.00	5,022.00	1.09		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
209,742.00	5,607.00		750.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/10/2012	12628 - 12750		6,233.00	8,213.00	5 Min: 4051
					10 Min: 3810
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3665
97.10	8,904.00	5,041.00	1.1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
206,449.00	5,570.00		750.00		

Stage	Formation	Frac Type			
15	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/10/2012	12478 - 12600		5,862.00	8,130.00	5 Min: 4229
					10 Min: 3983
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3826
87.30	9,042.00	5,919.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
205,902.00	5,082.00		750.00		

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Stage	Formation	Frac Type			
16	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/11/2012	12328 - 12450		6,030.00	8,047.00	5 Min: 3965
					10 Min: 3575
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3395
99.80	8,513.00	5,135.00	1.12		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,660.00	5,328.00		750.00		

Stage	Formation	Frac Type			
17	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/11/2012	12178 - 12300		6,082.00	7,916.00	5 Min: 4095
					10 Min: 3793
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3621
98.90	8,417.00	5,311.00	1.14		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,152.00	4,986.00		750.00		

Stage	Formation	Frac Type			
18	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/12/2012	12028 - 12150		6,452.00	8,055.00	5 Min: 4391
					10 Min: 4002
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3796
96.10	8,571.00	5,811.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,509.00	5,196.00		750.00		

Stage	Formation	Frac Type			
19	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/12/2012	11878 - 12000		6,328.00	7,951.00	5 Min: 4471
					10 Min: 4072
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3841
99.80	8,607.00	5,400.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,815.00	5,364.00		750.00		

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Stage	Formation	Frac Type			
20	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/12/2012	11728 - 11850		6,723.00	8,023.00	5 Min: 4167
					10 Min: 3787
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3576
99.88	8,368.00	5,374.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,990.00	5,307.00		750.00		

Stage	Formation	Frac Type			
21	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/12/2012	11578 - 11700		6,582.00	8,076.00	5 Min: 3639
					10 Min: 3449
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3353
99.00	8,807.00	4,204.00	0.99		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,053.00	5,163.00		750.00		

Stage	Formation	Frac Type			
22	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/13/2012	11428 - 11550		6,685.00	8,015.00	5 Min: 3810
					10 Min: 3562
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3431
98.50	8,319.00	4,588.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
204,743.00	5,081.00		750.00		

Stage	Formation	Frac Type			
23	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/13/2012	11278 - 11400		6,055.00	8,055.00	5 Min: 4132
					10 Min: 3720
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3509
100.00	8,617.00	5,322.00	1.14		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,903.00	5,177.00		750.00		

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Stage	Formation	Frac Type			
24	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/13/2012	11128 - 11250		5,766.00	7,710.00	5 Min: 3571
					10 Min: 3395
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3315
99.20	7,958.00	4,367.00	1.01		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,110.00	5,151.00		750.00		

Stage	Formation	Frac Type			
25	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/14/2012	10978 - 11100		6,423.00	8,317.00	5 Min: 3613
					10 Min: 3458
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3382
97.00	8,647.00	4,286.00	1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,556.00	4,938.00		750.00		

Stage	Formation	Frac Type			
26	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/14/2012	10828 - 10950		7,042.00	8,162.00	5 Min: 3672
					10 Min: 3515
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3428
94.00	8,598.00	4,539.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,461.00	5,076.00		750.00		

Stage	Formation	Frac Type			
27	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/14/2012	10678 - 10800		6,241.00	8,344.00	5 Min: 3606
					10 Min: 3650
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3478
99.40	9,215.00	6,316.00	1.27		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,314.00	5,743.00		750.00		

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Stage	Formation	Frac Type			
28	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/14/2012	10528 - 10650		6,001.00	7,666.00	5 Min: 3460
					10 Min: 3339
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3277
99.40	9,215.00	4,165.00	0.99		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,448.00	5,196.00		750.00		

Stage	Formation	Frac Type			
29	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/14/2012	10378 - 10500		6,758.00	7,918.00	5 Min: 4039
					10 Min: 3625
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3436
100.90	8,315.00	5,204.00	1.13		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,599.00	4,962.00		750.00		

Stage	Formation	Frac Type			
30	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/14/2012	10228 - 10350		6,013.00	8,114.00	5 Min: 3820
					10 Min: 3599
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3474
99.40	8,552.00	4,703.00	1.06		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,187.00	4,846.00		750.00		

Stage	Formation	Frac Type			
31	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/15/2012	10078 - 10200		6,952.00	8,015.00	5 Min: 3647
					10 Min: 3436
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3343
98.00	8,523.00	4,391.00	1.02		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,957.00	4,777.00		750.00		

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Stage	Formation	Frac Type			
32	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/15/2012	9928 - 10050		6,483.00	7,970.00	5 Min: 3739
					10 Min: 3558
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3462
99.90	8,942.00	4,256.00	1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,894.00	5,312.00		750.00		

Stage	Formation	Frac Type			
33	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/15/2012	9778 - 9900		7,022.00	7,796.00	5 Min: 3916
					10 Min: 3659
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3521
100.20	8,144.00	4,845.00	1.08		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,811.00	5,112.00		750.00		

Stage	Formation	Frac Type			
34	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/15/2012	9628 - 9750		6,897.00	7,645.00	5 Min: 3721
					10 Min: 3517
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3432
100.40	8,008.00	4,604.00	1.05		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,328.00	4,831.00		750.00		

Stage	Formation	Frac Type			
35	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/15/2012	9478 - 9600		6,816.00	7,758.00	5 Min: 3728
					10 Min: 3520
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3423
99.70	7,982.00	4,494.00	1.03		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,929.00	4,944.00		750.00		

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Stage	Formation	Frac Type			
36	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/16/2012	9328 - 9450		7,985.00	7,907.00	5 Min: 3758
					10 Min: 3545
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3448
100.10	8,456.00	4,625.00	1.05		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,638.00	4,773.00		750.00		

Stage	Formation	Frac Type			
37	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/16/2012	9178 - 9300		6,364.00	7,953.00	5 Min: 3710
					10 Min: 3534
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3429
100.80	8,604.00	4,488.00	1.03		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,999.00	4,866.00		750.00		

Stage	Formation	Frac Type			
38	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/16/2012	9028 - 9150		7,477.00	7,815.00	5 Min: 3781
					10 Min: 3569
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3454
100.60	8,120.00	4,777.00	1.07		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
198,738.00	5,000.00		750.00		

Stage	Formation	Frac Type			
39	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/16/2012	8878 - 9000		7,882.00	7,964.00	5 Min: 3778
					10 Min: 3531
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3417
97.31	8,791.00	4,869.00	1.08		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,867.00	4,919.00		750.00		

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Stage	Formation	Frac Type			
40	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/16/2012	8728 - 8850		6,355.00	7,251.00	5 Min: 3876
					10 Min: 3599
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3478
100.70	7,888.00	5,271.00	1.14		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,615.00	4,925.00		750.00		

Stage	Formation	Frac Type			
41	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/16/2012	8578 - 8700		6,500.00	7,365.00	5 Min: 4409
					10 Min: 3963
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3734
100.80	8,502.00	5,492.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,652.00	4,851.00		750.00		

Stage	Formation	Frac Type			
42	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/17/2012	8428 - 8550		6,990.00	7,239.00	5 Min: 3535
					10 Min: 3341
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3271
100.80	7,894.00	4,507.00	1.03		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,244.00	4,766.00		750.00		

Stage	Formation	Frac Type			
43	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/17/2012	8278 - 8400		6,902.00	7,347.00	5 Min: 4127
					10 Min: 3818
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3619
100.60	9,189.00	5,294.00	1.14		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,953.00	4,936.00		750.00		

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Stage	Formation	Frac Type			
44	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/17/2012	8128 - 8250		6,001.00	7,192.00	5 Min: 3601
					10 Min: 3389
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3299
100.70	7,575.00	4,549.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,487.00	5,012.00		750.00		

Stage	Formation	Frac Type			
1.1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
9/6/2012	14561 - 14583		8,465.00	8,410.00	5 Min: 3194
					10 Min: 3137
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3103
77.00	8,901.00	3,505.00	0.9		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
184,210.00	9,546.00		2,000.00		

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2/7/2013
API #: 47-103-02699

Farm name: Sharon Scyoc Operator Well No.: 513979

LOCATION: Elevation: 1,474' Quadrangle: Pine Grove

District: Grant County: Wetzel, WV
Latitude: 39.565282 Feet South of ____ Deg. 39 Min. 35 Sec.
Longitude -80.626355 Feet West of ____ Deg. 80 Min. 37 Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	26	60	60	86.49
Agent: Cecil Ray	13 3/8	850	850	-
Inspector: Derek Haught	9 5/8	3,408	3,408	-
Date Permit Issued: 10/13/2011	5 1/2	14,016	14,016	2,174.6
Date Well Work Commenced: 3/22/2012				
Date Well Work Completed: 6/12/12				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7516.3'				
Total Measured Depth (ft): 14,049'				
Fresh Water Depth (ft.): 340', 736'				
Salt Water Depth (ft.): None reported.				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 76, 91, 169, 181, 222, 352, 413, 458, 553, 668, 690				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,516.3
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow *See cover sheet. MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure *See cover sheet. psig (surface pressure) after ____ Hours

Second producing formation No second formation. Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

2/7/2013
Date

103.02699

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s):

N/A

Formations Encountered: Top Depth / Bottom Depth
Surface:

Sand & Shale / 0 / 76 / 76 -- Coal / 76 / 78 / 2 -- Sand & Shale / 78 / 91 / 13 -- Coal / 91 / 96 / 5 -- Sand & Shale / 96 / 169 / 73 -- Coal / 169 / 171 / 2 -- Sand & Shale / 171 / 181 / 10 -- Coal / 181 / 194 / 13 -- Sand & Shale / 194 / 222 / 28 -- Coal / 222 / 225 / 3 -- Sand & Shale / 225 / 352 / 127 -- Coal / 352 / 355 / 3 -- Sand & Shale / 355 / 380 / 25 -- Red Rock / 380 / 386 / 6 -- Sand & Shale / 386 / 400 / 14 -- Red Rock / 400 / 404 / 4 -- Sand & Shale / 404 / 413 / 9 -- Coal / 413 / 416 / 3 -- Sand & shale / 416 / 458 / 42 -- Coal / 458 / 462 / 4 -- Sand & Shale / 462 / 553 / 91 -- Coal / 553 / 577 / 24 -- Sand & Shale / 577 / 668 / 91 -- Coal / 668 / 672 / 4 -- Sand & Shale / 672 / 690 / 18 -- Coal 690 / 712 / 22 -- Sand & Shale / 712 / 1152 / 440 -- Red Rock / 1152 / 1164 / 12 -- Sand & Shale / 1164 / 1330 / 166 -- Red Rock / 1330 / 1335 / 5 -- Sand & Shale / 1335 / 1360 / 5 -- Red Rock / 1360 / 1368 / 8 -- Sand & shale / 1368 / 1375 / 7 -- red Rock / 1375 / 1391 / 16 -- Sand & Shale / 1391 / 1553 / 142 -- Red Rock / 1553 / 1560 / 7 -- Sand & Shale / 1560 / 2306 / 746 Maxton / 2306 / 2524 / 218 -- Big Lime / 2524 / 2650 / 126 / -- Big Injun / 2650 / 2795 / 145 -- Weir / 2795 / 2994 / 199 Gantz / 2994 / 3114 / 120 -- 50F / 3114 / 3190 / 76 -- 30F / 3190 / 3242 / 52 -- Gordon / 3242 / 3324 / 82 -- Fourth Sand / 3324 / 3450 / 126 -- Bayard / 3450 / 3902 / 452 -- Warren / 3902 / 4053 / 151 -- Speechley / 4053 / 4898 / 845 -- Riley / 4898 / 5566 / 668 -- Benson / 5566 / 5882 / 316 -- Alexander / 5882 / 7034 / 1152 -- Sonyea / 7034 / 7202 / 168 -- Middlesex / 7202 / 7242 / 40 -- Genesee / 7242 / 7326 / 84 -- Geneseo / 7326 / 7351 / 25 -- Tully / 7351 / 7376 / 25 -- Hamilton / 7376 / 7456 / 80 -- Marcellus -- 7456 / 7461 / 5 Purcell / 7461 / 7516 / 55 -- Cherry Valley / 7516

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/5/2012	13671 - 13853		8,193.00	8,368.00	5 Min: 3600
					10 Min: 3461
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3396
84.50	8,655.00	4,180.00	0.99		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
372,407.00	10,437.00		2,000.00		
Stage	**Formation**	**Frac Type**			
2	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/5/2012	13371 - 13613		7,403.00	8,371.00	5 Min: 3661
					10 Min: 3561
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3508
83.40	8,899.00	4,053.00	0.97		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
381,687.00	10,167.00		750.00		
Stage	**Formation**	**Frac Type**			
3	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/5/2012	13071 - 13311		6,305.00	8,302.00	5 Min: 3992
					10 Min: 3770
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3629
83.70	8,544.00	4,419.00	1.02		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
372,987.00	9,887.00		750.00		

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Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2012	12771 - 13013		6,455.00	8,445.00	5 Min: 4176
					10 Min: 3908
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3774
77.94	9,053.00	5,343.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
244,259.00	9,667.00		750.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2012	12471 - 12713		6,570.00	8,266.00	5 Min: 3945
					10 Min: 3707
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3736
95.40	8,692.00	4,497.00	1.03		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
344,138.00	10,017.00		750.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2012	12171 - 12413		6,818.00	8,284.00	5 Min: 3988
					10 Min: 3830
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3746
88.80	9,068.00	4,406.00	1.02		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
306,905.00	10,199.00		750.00		

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2012	11871 - 12113		6,452.00	8,068.00	5 Min: 4062
					10 Min: 3840
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3746
95.00	8,374.00	4,885.00	1.08		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
377,128.00	10,218.00		750.00		

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Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/7/2012	11571 - 11813		7,056.00	8,273.00	5 Min: 3839
					10 Min: 3738
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3691
97.80	8,616.00	4,497.00	1.03		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,487.00	10,114.00		750.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/7/2012	11271 - 11513		6,555.00	8,418.00	5 Min: 4157
					10 Min: 4033
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3945
85.20	8,956.00	5,248.00	1.13		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
246,261.00	8,408.00		750.00		

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/7/2012	10971 - 11213		7,501.00	8,049.00	5 Min: 3798
					10 Min: 3731
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3693
86.60	8,331.00	4,120.00	0.98		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
369,294.00	10,308.00		750.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/7/2012	10671 - 10913		6,167.00	7,974.00	5 Min: 4001
					10 Min: 3860
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3797
94.00	8,548.00	4,566.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,406.00	9,952.00		750.00		

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Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/8/2012	10371 - 10613		7,433.00	7,849.00	5 Min: 3889
					10 Min: 3748
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3714
98.10	8,619.00	4,557.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
415,731.00	9,771.00		750.00		

Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/8/2012	10071 - 10313		6,831.00	7,996.00	5 Min: 3769
					10 Min: 3680
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3634
95.60	8,318.00	4,251.00	1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
398,847.00	9,519.00		750.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/9/2012	9771 - 10013		6,692.00	7,941.00	5 Min: 3804
					10 Min: 3725
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3674
93.90	8,881.00	4,189.00	0.99		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,264.00	9,839.00		750.00		

Stage	Formation	Frac Type			
15	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/9/2012	9471 - 9713		6,950.00	7,606.00	5 Min: 3783
					10 Min: 3682
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3635
97.50	8,386.00	4,517.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
400,392.00	9,409.00		750.00		

103.02699

Stage	Formation	Frac Type			
16	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2012	9171 - 9413		6,805.00	7,903.00	5 Min: 3888
					10 Min: 3720
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3638
99.40	8,337.00	4,540.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
403,758.00	9,266.00		750.00		

Stage	Formation	Frac Type			
17	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2012	8871 - 9113		7,559.00	7,663.00	5 Min: 4655
					10 Min: 4258
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4043
100.00	8,806.00	5,646.00	1.19		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,787.00	9,425.00		750.00		

Stage	Formation	Frac Type			
18	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2012	8571 - 8813		7,747.00	8,273.00	5 Min: 3775
					10 Min: 3642
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3586
94.90	9,015.00	4,585.00	1.05		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
397,590.00	10,346.00		750.00		

Stage	Formation	Frac Type			
19	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2012	8271 - 8513		7,097.00	8,293.00	5 Min: 3860
					10 Min: 3721
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3638
98.30	8,769.00	4,345.00	1.01		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,187.00	9,401.00		750.00		

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Stage	Formation	Frac Type			
20	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2012	7971 - 8213		7,320.00	7,368.00	5 Min: 3738
					10 Min: 3641
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3586
100.20	7,738.00	4,188.00	0.99		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,512.00	9,372.00		750.00		

Stage	Formation	Frac Type			
21	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2012	7806 - 7928		6,408.00	7,291.00	5 Min: 3828
					10 Min: 3637
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3611
99.90	7,996.00	4,317.00	1.01		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
201,253.00	4,909.00		750.00		

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 5/28/2013 ✓
API #: 47-10302621

Farm name: Underwood, Richard M. & M. Operator Well No.: 513135

LOCATION: Elevation: 941' Quadrangle: Big Run

District: Grant County: Wetzel, WV

Latitude: 10,080' Feet South of 39 Deg. 35 Min. 00 Sec.

Longitude 6,080' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	30	65	65	165
Agent: Cecil Ray	13 3/8	767	767	973
Inspector: Derek Haught	9 5/8	3,147	3,147	1,298
Date Permit Issued: 1/26/2011				
Date Well Work Commenced: 1/21/2013				
Date Well Work Completed: 3/11/2013				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 5,066'				
Total Measured Depth (ft): 5,066'				
Fresh Water Depth (ft.): 80'				
Salt Water Depth (ft.): 1,545'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 270', 370',440', 534, 630'				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Not completed at this time Pay zone depth (ft) N/A

Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d

Final open flow N/A MCF/d Final open flow ____ Bbl/d

Time of open flow between initial and final tests ____ Hours

Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation No second formation. Pay zone depth (ft) ____

Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d

Final open flow ____ MCF/d Final open flow ____ Bbl/d

Time of open flow between initial and final tests ____ Hours

Static rock Pressure ____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

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103-02621

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Surf. CBL, Int. CBL, Gyro

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

N/A

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Top Depth / Bottom Depth
Surface:

Sand/Shale 0/270/270	Coal 270/272/2	Sand/Shale 272/370/98	Coal 370/374/4
Sand/Shale 374/440/66	Coal 440/443/3	Sand/Shale 443/534/91	Coal 534/537/3
Sand/Shale 537/630/93	Coal 630/632/2	Sand/Shale 632/1732/1100	Maxton 1732/1853/121
Big Lime 1853/2220/367	Weir 2220/2425/205	Gantz 2425/2540/115	50F 2540/2618/78
30F 2618/2668/50	Gordon 2668/2735/67	4th 2735/2841/106	Bayard 2841/3327/486
Warren 3327/3469/142	Speechley 3469/3855/386	Balltown A 3855/4314/459	Riley 4314/4938/624
Benson 4938/5066/128			

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/3/2013
API #: 47-033-05453-00

Farm name: Post, Mary et al Operator Well No.: Robert Haught South Unit 1H

LOCATION: Elevation: 1060' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 10,980' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 12,294' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Hall Drilling Co., LLC

Address: P.O. Box 249	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Ellenboro, WV 26346	24" 120#	23'	23'	13 Cu. Ft. Grout
Agent: Mike Hall	20" 94#	120'	120'	55 Cu. Ft. Grout
Inspector: Tristan Jenkins	13-3/8" 54.5#	420'	420'	590 Cu. Ft. Class A
Date Permit Issued: 8/16/2010	9-5/8" 36#	3079'	3079'	1176 Cu. Ft. Class A
Date Well Work Commenced: 8/12/2010	5-1/2" 20#	14,436'	14,436'	3571 Cu. Ft. Class H
Date Well Work Completed: 2/15/2011				
Verbal Plugging: N/A	2-3/8" 4.7#	7312'		
Date Permission granted on: N/A	Cement Plug	Top	Bottom	
Rotary ☑ Cable ☐ Rig ☐		420'	690'	221 Cu Ft. Class A
Total Vertical Depth (ft): 7212' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,453' MD, 7167' TVD (BHL)				
Fresh Water Depth (ft.): est. 70'				
Salt Water Depth (ft.): 620'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 215', 505', 785'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7190' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 10,242 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

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M T Hall V.P.
Signature

4-3-13
Date

33.054453

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7585' - 14,373' MD (1224 holes)

Frac'd w/ 5178 gals 15% HCL Acid, 129,552 bbls Slick Water carrying 657,080# 100 mesh, 23,151,700# 40/70 and 1,884,560# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Big Lime	2068'	2135'
Big Injun	2136'	2514'
Gantz Sand	2515'	2647'
Fifty Foot Sand	2648'	2737'
Gordon	2738'	3086'
Fifth Sandstone	3087'	3114'
Bayard	3115'	3854'
Speechley	3855'	4159'
Balltown	4160'	4498'
Bradford	4499'	5048'
Benson	5049'	5339'
Alexander	5340'	5544'
Elk	5545'	6137'
Rhinestreet	6138'	6504'
Sycamore Gas	6505'	6868'
Middlesex	6869'	7017'
Burket	7018'	7045'
Tully	7046'	7189'
Marcellus	7190'	7212' TVD

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/3/2013
API #: 47-017-05899-00

Farm name: Whitehair, Elton Operator Well No.: F. Maxwell Heirs 1A

LOCATION: Elevation: 1271' Quadrangle: New Milton 7.5'

District: New Milton County: Doddridge
Latitude: 7599" Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 21' Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Hall Drilling Co., LLC

Address: P.O. Box 249	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Ellenboro, WV 26346				
Agent: Mike Hall	9 5/8"	378'	378'	CTS
Inspector: Sam Ward	7"	2,574'	2,574'	CTS
Date Permit Issued: 12/3/2009	4 1/2"	7,353'	7,353'	120 SKS
Date Well Work Commenced: 2/1/2010				
Date Well Work Completed:				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7424'				
Total Measured Depth (ft): 7424'				
Fresh Water Depth (ft.): est 169', 295'				
Salt Water Depth (ft.): 955', 2200'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 371', 584', 899'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7183' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 846 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

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V.P.
Signature

4-3-13
Date

17-05899

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Big Lime	2253'	2344'
Big Injun	2345'	2589'
Gantz Sand	2590'	2768'
Fifty Foot Sand	2769'	2969'
Gordon	2970'	3325'
Fifth Sandstone	3326'	3389'
Bayard	3390'	3953'
Speechley	3954'	4150'
Balltown	4151'	4792'
Bradford	4793'	5257'
Benson	5258'	5504'
Alexander	5505'	5726'
Elk	5727'	6262'
Rhinestreet	6263'	6760'
Sycamore	6761'	6918'
Middlesex	6919'	7065'
Burket	7066'	7096'
Tully	7097'	7182'
Marcellus	7183'	7424' TVD

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/3/2013
API #: 47-033-05413-00

Farm name: Stamm, Jeffrey O. Operator Well No.: Hustead North 1H

LOCATION: Elevation: 1247' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 440' Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 10,835' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Hall Drilling Co., LLC

Address: P.O. Box 249	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Ellenboro, WV 26346	20" 94#	35'	35'	67 Cu. Ft. Class A
Agent: Mike Hall	13-3/8" 54.5#	405'	405'	586 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	3138'	3138'	1311 Cu. Ft. Class A
Date Permit Issued: 5/6/2010	5-1/2" 20#	12,200'	12,200'	2779 Cu. Ft. Class H
Date Well Work Commenced: 5/11/2010				
Date Well Work Completed: 10/08/2010	2-3/8" 4.7#	7497'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7460' TVD (deepest point drilled)				
Total Measured Depth (ft): 12,212' MD, 7460' TVD (BHL)				
Fresh Water Depth (ft.): est. 70'				
Salt Water Depth (ft.): 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 377', 665', 945'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7350' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 3,782 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after_____Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

M T Hall V.P. 4-3-13
Signature Date

33-05413

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7952' - 12,112' MD (600 holes)

Frac'd w/104,001 bbls Slick Water carrying 1,902,857# 80/100, 20/40 and 30/50 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Speechley	3874'	4131'
Balltown	4132'	4656'
Bradford	4657'	5211'
Benson	5212'	5478'
Alexander	5479'	5697'
Elk	5698'	6212'
Rhinestreet	6213'	6792'
Sycamore	6793'	7019'
Middlesex	7020'	7177'
Burket	7178'	7199'
Tully	7200'	7349'
Marcellus	7350'	7460' TVD

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/3/2013
API #: 47-033-05448-00

Farm name: Stamm, Jeffrey O. Operator Well No.: Hustead South 1H

LOCATION: Elevation: 1247' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 458' Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 79' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Hall Drilling Co., LLC

Address: P.O. Box 249	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Ellenboro, WV 26346	20" 94#	35'	35'	67 Cu. Ft. Class A
Agent: Mike Hall	13-3/8" 54.5#	445'	445'	642 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	3086'	3086'	1273 Cu. Ft. Class A
Date Permit Issued: 7/14/2010	5-1/2" 20#	14,072'	14,072'	3308 Cu. Ft. Class H
Date Well Work Commenced: 7/19/2010				
Date Well Work Completed: 10/08/2010	2-3/8" 4.7#	7459'		
Verbal Plugging: N/A				
Date Permission granted on: N/A	Cement Plug	Top	Bottom	
Rotary ☑ Cable ☐ Rig ☐		470'	723'	
Total Vertical Depth (ft): 7376' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,090' MD, 7332' TVD (BHL)				
Fresh Water Depth (ft.): est. 70'				
Salt Water Depth (ft.): est 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 377', 665', 945'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7354' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 6,228 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

M Hall V.P. 4-3-13
Signature Date

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33.05448

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7770' - 13,992' MD (900 holes)

Frac'd w/160,001 bbls Slick Water carrying 3,099,843# 80/100, 20/40 and 30/50 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Speechley	3874'	4131'
Balltown	4132'	4656'
Bradford	4657'	5211'
Benson	5212'	5478'
Alexander	5479'	5697'
Elk	5698'	6212'
Rhinestreet	6213'	6758'
Sycamore	6759'	7018'
Middlesex	7019'	7176'
Burket	7177'	7201'
Tully	7202'	7353'
Marcellus	7354'	7376' TVD

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 3/12/2012
API #: 47-033-05437

Farm name: Mazer, Douglas A. Operator Well No.: O. Rice South Unit 1H

LOCATION: Elevation: 1038' Quadrangle: Salem 7.5'

District: Tennile County: Harrison
Latitude: 9987 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 5854 Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Hall Drilling, LLC

Address: P.O. Box 249	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Ellenboro, WV 26346	20" 94#	40'	40'	38 Cu. Ft. Grout
Agent: Michael T. Hall	13-3/8" 54.5#	425'	425'	590 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2714'	2714'	1105 Cu. Ft. Class A
Date Permit Issued: 6/15/2010	5-1/2" 20#	14750'	14750'	3592 Cu. Ft. Class H
Date Well Work Commenced: 11/15/2010				
Date Well Work Completed: 7/14/2011	2-3/8" 4.7#	7455'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7237' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,750' MD, 7182' TVD (BHL)				
Fresh Water Depth (ft.): 215'				
Salt Water Depth (ft.): *N/A				
Is coal being mined in area (N/Y)? No	*Due to air drilling, Hall was unable to identify accurate salt water and/or coal depths for reporting.			
Coal Depths (ft.): *N/A				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7215' TVD (Top)
Gas: Initial open flow --- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 14326 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3521 psig (surface pressure) after --- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

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MT Hall
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3-12-12
Date

APR 1 2013

33-05437

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - Cement Bond/Gamma Ray/CCL Log, Photo Density/Compensated Neutron/Gamma Ray and Dual Laterlog/Gamma Ray

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,581' – 14,683' MD (1,212 holes)

Frac'd w/5,250 gals 15% HCl Acid, 119,472bbls Slick Water carrying 601,400# 100 mesh, 2,451,200# 40/70 and 1,458,000# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Big Lime	1986'	2082'
Big Injun	2083'	2539'
Gantz	2540'	2653'
Fifty Foot	2654'	2755'
Gordon	2756'	3098'
Fifth Sand	3099'	3144'
Bayard	3145'	3638'
Speechley	3639'	3852'
Balltown	3853'	4291'
Bradford	4292'	4925'
Benson	4926'	5241'
Alexander	5242'	5524'
Elk	5525'	6612'
Sycamore	6613'	7068'
Tully	7069'	7161'
Hamilton	7162'	7214'
Marcellus	7215'	7237' TVD

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/3/2013
API #: 47-033-05375-00

Farm name: Post, Mary et al Operator Well No.: Mary Post 1H

LOCATION: Elevation: 1060' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 10,973' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 12,308' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Hall Drilling Co., LLC

Address: P.O. Box 249	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Ellenboro, WV 26346	26" 120#	10'	10'	24 Cu. Ft. Class A
Agent: Mike Hall	20" 94#	95'	95'	182 Cu. Ft. Class A
Inspector: Tristan Jenkins	13-3/8" 54.5#	522'	522'	727 Cu. Ft. Class A
Date Permit Issued: 1/13/2010	9-5/8" 36#	3059'	3059'	1231 Cu. Ft. Class A
Date Well Work Commenced: 4/23/2010	5-1/2" 20#	11,225'	11,225'	2633 Cu. Ft. Class H
Date Well Work Completed: 7/25/2010				
Verbal Plugging: N/A	2-3/8" 4.7#	7367'		
Date Permission granted on: N/A	Cement Plug	Top	Bottom	
Rotary ☑ Cable ☐ Rig ☐		6244'	7330'	1813 Cu Ft. Class A
Total Vertical Depth (ft): 7213' TVD (deepest point drilled)				
Total Measured Depth (ft): 11,234' MD, 7194' TVD (BHL)				
Fresh Water Depth (ft.): est. 70'				
Salt Water Depth (ft.): est 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 377', 665', 945'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7194' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 5,232 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

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APR 1 2013

V.P.
Signature

4-3-13
Date

33.05375

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7468' - 11,144' MD (540 holes)

Frac'd w/12,500 gals 15% HCL Acid, 97,147 bbls Slick Water carrying 1,979,261# 20/40 and 30/50 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Big Lime	2058'	2124'
Big Injun	2125'	2517'
Gantz Sand	2518'	2644'
Fifty Foot Sand	2645'	2727'
Gordon	2728'	3076'
Fifth Sandstone	3078'	3102'
Bayard	3103'	3837'
Speechley	3838'	4144'
Balltown	4145'	4480'
Bradford	4481'	5034'
Benson	5035'	5273'
Alexander	5274'	6589'
Sycamore	6590'	6834'
Middlesex	6835'	7014'
Burket	7015'	7042'
Tully	7043'	7193'
Marcellus	7194'	7213' TVD

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APR 12 2013

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: June 12, 2013
API #: 47-033-05145

Farm name: Oliverio Operator Well No.: #1 WV0272

LOCATION: Elevation: 1,038' Quadrangle: West Milford 7.5'

District: Union (Outside) County: Harrison
Latitude: 4,110' Feet South of 39 Deg. 14 Min. 19.8 Sec.
Longitude 4,010' Feet West of 80 Deg. 23 Min. 20.5 Sec.

Company: Mountain V Oil & Gas, Inc.

Address: PO Box 470	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	9 5/8"		212	CTS
Agent: Mike Shaver	7"		1,402	CTS
Inspector: Sam Ward (Was Tim Bennett when drilled)	4 1/2"		3,275	145 sks
Date Permit Issued: 09-02-2008				
Date Well Work Commenced: 12-09-2008				
Date Well Work Completed: 12-18-2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 3,408'				
Total Measured Depth (ft): 3,408'				
Fresh Water Depth (ft.): 111'				
Salt Water Depth (ft.): 1305'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) N				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation 50foot, 4th/5th, Bayard, Bradford, 1 Riley Pay zone depth (ft)_____
Gas: Initial open flow Oder MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 1163 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 650 psig (surface pressure) after 24 Hours

Second producing formation Comingled Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

6-12-13
Date

33-05145

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, CD, Induction, Density, Temp, PE

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Stage 1: 3208 10 Holes Perf
3080 2 Holes Perf > 150 sks Proppant 75 Q Delta
2984 6 Holes Perf
Stage 2: 2280-2293 - 26 Holes - 250 sks Proppant 75 Q Delta
Stage 3: 2145-2209 - 36 Holes - 300 sks Proppant 75 Q Delta
Stage 4: 1790-1946 - 56 Holes - 450 sks Proppant 75 Q Delta
Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Fill/Sand/Shale: 0-1310	Balltown: 2660-2800
Greenbrier Big Lime: 1310-1478	Bradford: 2800-2888
Big Injun SS: 1478-1620	1 Riley: 2888-3170
Squaw: 1620-1700	2 Riley: 3170-3408
Weir: 1700-1780	TD: 3408
Gantz - Berea: 1780-1850	
50 Foot: 1850-1936	
30 Foot: 1936-1975	
Gordon str: 1975-2048	
Gordon: 2048-2103	
4th: 2103-2205	
5th: 2205-2268	
Bayard: 2268-2325	
Warren: 2325-2440	
Speechley: 2440-2660	

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: June 12, 2013
API #: 47-041-05343

Farm name: McLaughlin Operator Well No.: #1 WV0194

LOCATION: Elevation: 1,133' Quadrangle: Peterson 7.5'

District: Courthouse County: Lewis
Latitude: 820' Feet South of 38 Deg. 57 Min. 30 Sec.
Longitude 6610 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Mountain V Oil & Gas, Inc.

Address: PO Box 470	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	9 5/8"		42	CTS
Agent: Mike Shaver	7"		481	CTS
Inspector: Bill Hatfield (Was Tim Bennett when drilled)	4 1/2"		4,735	245 sks
Date Permit Issued: 10/19/2007				
Date Well Work Commenced: 12/01/2007				
Date Well Work Completed: 12/11/2007				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 4,892'				
Total Measured Depth (ft): 4,892'				
Fresh Water Depth (ft.): 115'				
Salt Water Depth (ft.): 976'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 118', 319'				
Void(s) encountered (N/Y) Depth(s) N				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Lime, Injun, Gordon, Balltown, Benson Pay zone depth (ft)_____
Gas: Initial open flow Odor MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 600 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 510 psig (surface pressure) after 24 Hours

Second producing formation Comingled Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow_____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

6-12-13
Date

41-05343

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, CD, Induction, Density, Temp, PE

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Stage 1: 4652-4656 - 16 Holes - 150 sks Proppant 75 Q Delta

Stage 2: 3490-3660 - 20 Holes - 150 sks Proppant 75 Q Delta

Stage 3: 2680-2690 - 20 Holes - 250 sks Proppant 75 Q Delta

Stage 4: 2465-2474 - 18 Holes - 225 sks Proppant 75 Q Delta

Stage 5: 1968-2062 - 24 Holes - 200 sks Proppant 75 Q Delta

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Fill/Sand/Shale: 0-15	Warren: 3090-3200
Sand/ Shale: 15-115	Speechley: 3200-3240
Coal: 115-118	Shale: 3240-3904
Sand/Shale: 118-315	Balltown: 3904-3955
Coal: 315-319	Sand/Shale: 3955-4287
Sand/Shale: 319-920	Riley: 4287-4350
Sand: 920-976	Sand/Shale: 4350-4735
Sand/Shale: 976-1875	Benson: 4735-4892
Lime: 1875-2100	TD: 4892
Injun: 2100-2250	
Sand/Shale: 2250-2570	
Gordon: 2570-2640	
Sand/Shale: 2640-2775	
Elizabeth: 2775-2850	
Shale: 2850-3090	

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-033-05637

Farm name: Bowyer, Matthew E. & Lisa Operator Well No.: Dawson Unit 1H

LOCATION: Elevation: 1,290' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 8,929' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,364' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	375'	375'	521 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2,518'	2,518'	1025 Cu. Ft. Class A
Date Permit Issued: 6/28/2012	5-1/2" 20#	17,200'	17,200'	4320 Cu. Ft. Class H
Date Well Work Commenced: 9/29/2012				
Date Well Work Completed: 1/21/2013	2-3/8" 4.7#	7,150'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7099' TVD (deepest point drilled)				
Total Measured Depth (ft): 17,200' MD, 7047' TVD (BHL)				
Fresh Water Depth (ft.): 180'				
Salt Water Depth (ft.): None Available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 18', 178', 258', 298'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,063' TVD (Top)
Gas: Initial open flow — MCF/d Oil: Initial open flow N/A Bbl
Final open flow 8,076 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after — Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Katie Ki
Signature

4/19/13
Date

33-05637

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Winnie Unit 2H API#47-033-05615). Please reference the wireline logs submitted with Form WR-35 for Winnie Unit 2H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,225' - 17,134' MD (2,088 holes)

Frac'd w/ 15,120 gals 15% HCL Acid, 209,022 bbls Slick Water carrying 1,023,180# 100 mesh, 4,004,673# 40/70 sand and 2,447,890# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Big Lime	est 1748'	1856'
Big Injun	est 1857'	2107'
Gantz Sand	est 2108'	2223'
Fifty Foot Sandstone	est 2224'	2329'
Gordon	est 2330'	2564'
Fifth Sandstone	est 2565'	2627'
Bayard	est 2628'	3311'
Speechley	est 3312'	3557'
Balltown	est 3558'	4082'
Bradford	est 4083'	4708'
Benson	est 4709'	4923'
Alexander	est 4924'	5064'
Elk	est 5065'	5627'
Rhinestreet	est 5628'	6448'
Sycamore	est 6449'	6688'
Middlesex	6689'	6855'
Burket	6856'	6880'
Tully	6881'	6995'
Hamilton	6996'	7062'
Marcellus	7063'	7099' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/1/13
API #: 47-033-05612

Farm name: Bowyer, Mathew E. and Lisa D. Operator Well No.: Winnie Unit 1H

LOCATION: Elevation: 1290' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 8,936' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,357' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	340'	340'	472 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2640'	2,640'	1002 Cu. Ft. Class A
Date Permit Issued: 6/26/2012	5-1/2" 20#	15,995'	15,995'	4006 Cu. Ft. Class H
Date Well Work Commenced: 6/30/2012				
Date Well Work Completed: 1/6/2013	2-3/8" 4.7#	7,405'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7135' TVD (deepest point drilled)				
Total Measured Depth (ft): 15,995' MD, 7083' TVD (BHL)				
Fresh Water Depth (ft.): 180'				
Salt Water Depth (ft.): None available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 18', 178', 258', 298'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7110' TVD (Top)
Gas: Initial open flow —— MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 9,251 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after —— Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

4/11/13
Date

33.05612

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Winnie Unit 2H API#47-033-05615). Please reference the wireline logs submitted with Form WR-35 for Winnie Unit 2H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,500' - 15,929' MD (1,800 holes)

Frac'd w/ 13,146 gals 15% HCL Acid, 179,088 bbls Slick Water carrying 899,166# 100 mesh,

3,473,254# 40/70 sand and 2,058,071# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	est 1748'		1856'
Big Injun	est 1857'		2107'
Gantz Sand	est 2108'		2223'
Fifty Foot Sandstone	est 2224'		2329'
Gordon	est 2330'		2564'
Fifth Sandstone	est 2565'		2627'
Bayard	est 2628'		3311'
Speechley	est 3312'		3557'
Balltown	est 3558'		4082'
Bradford	est 4083'		4708'
Benson	est 4709'		4923'
Alexander	est 4924'		5064'
Elk	est 5065'		5627'
Rhinestreet	est 5628'		6472'
Sycamore	6473'		6732'
Middlesex	6733'		6899'
Burket	6900'		6926'
Tully	6927'		7042'
Hamilton	7043'		7109'
Marcellus	7110'		7135' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-033-05615

Farm name: Bowyer, Mathew E. and Lisa D. Operator Well No.: Winnie Unit 2H

LOCATION: Elevation: 1290' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 8,944' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,350' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	330'	330'	458 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2446'	2446'	996 Cu. Ft. Class A
Date Permit Issued: 6/28/2012	5-1/2" 20#	15,753'	15,753'	3944 Cu. Ft. Class H
Date Well Work Commenced: 6/30/2012				
Date Well Work Completed: 1/13/2013	2-3/8" 4.7#	7,328'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7143' TVD(deepest point drilled)				
Total Measured Depth (ft): 7,058' TVD , 15,753' MD (BHL)				
Fresh Water Depth (ft.): 180'				
Salt Water Depth (ft.): None available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 18', 178', 258', 298'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,092' TVD (Top)
Gas: Initial open flow —— MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 9,090 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after —— Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

4/16/13
Date

33-05615

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL, Dual Laterolog / Gamma Ray, and Photo Density / Compensated Neutron / Gamma Ray.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,319' - 15,687' MD (1,800 holes)

Frac'd w/ 13,104 gals 15% HCL Acid, 177,773 bbls Slick Water carrying 899,820# 100 mesh, 3,419,595# 40/70 sand and 2,038,000# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	1748'		1856'
Big Injun	1857'		2107'
Gantz Sand	2108'		2223'
Fifty Foot Sandstone	2224'		2329'
Gordon	2330'		2564'
Fifth Sandstone	2565'		2627'
Bayard	2628'		3311'
Speechley	3312'		3557'
Balltown	3558'		4082'
Bradford	4083'		4708'
Benson	4709'		4923'
Alexander	4924'		5064'
Elk	5065'		5627'
Rhinestreet	5628'		6448'
Sycamore	6449'		6710'
Middlesex	6711'		6879'
Burket	6880'		6906'
Tully	6907'		7019'
Hamilton	7020'		7091'
Marcellus	7092'		7143' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-017-06096

Farm name: Coastal Forest Resources Operator Well No.: Heirs Unit 2H

LOCATION: Elevation: 1,110' Quadrangle: New Milton 7.5'

District: New Milton County: Doddridge
Latitude: 8,732' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,215' Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	415'	415'	577 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2,540'	2,540'	1034 Cu. Ft. Class A
Date Permit Issued: 7/31/2012	5-1/2" 20#	14,507'	14,507'	3573 Cu. Ft. Class H
Date Well Work Commenced: 8/14/2012				
Date Well Work Completed: 12/8/2012	2-3/8" 4.7#	7,274'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7136' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,507' MD, 7131' TVD (BHL)				
Fresh Water Depth (ft.): est. 169'				
Salt Water Depth (ft.): est. 642', 895'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 240', 280', 320', 455', 655'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7037' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 9,933 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3950 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

April 22, 2013
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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature Date 4/19/13

17-06096

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Heirs Unit 1H API#47-017-06099). Please reference the wireline logs submitted with Form WR-35 for Heirs Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,522' - 14,441' MD (1,440 holes)

Frac'd w/ 10,584 gals 15% HCL Acid, 144,665 bbls Slick Water carrying 728,713# 100 mesh,

2,794,524# 40/70 sand and 1,555,070# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	est. 2110'		2196'
Big Injun	est. 2197'		2446'
Gantz Sand	est. 2447'		2626'
Fifty Foot Sandstone	est. 2627'		2833'
Gordon	est. 2834'		3183'
Fifth Sandstone	est. 3184'		4012'
Balltown	est. 4013'		4653'
Bradford	est. 4654'		5116'
Benson	est. 5117'		5364'
Alexander	est. 5365'		6620'
Sycamore	6621'		6678'
Middlesex	6779'		6780'
Sonyea	6781'		6919'
Burket	6920'		6952'
Tully	6953'		7027'
Hamilton	7028'		7036'
Marcellus	7037'		7136' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-017-06099

Farm name: Coastal Forest Resources Operator Well No.: Heirs Unit 1H

LOCATION: Elevation: 1,110' Quadrangle: New Milton 7.5'

District: New Milton County: Doddridge
Latitude: 8,739' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,223' Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	418'	418'	481 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2,515'	2,515'	1024 Cu. Ft. Class A
Date Permit Issued: 6/12/2012	5-1/2" 20#	13,830'	13,830'	3394 Cu. Ft. Class H
Date Well Work Commenced: 8/13/2012				
Date Well Work Completed: 12/3/2012	2-3/8" 4.7#	7,151'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7131' TVD (deepest point drilled)				
Total Measured Depth (ft): 13,830' MD, 7120' TVD (BHL)				
Fresh Water Depth (ft.): est.169'				
Salt Water Depth (ft.): est. 642', 895'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 240', 280', 320', 455', 655'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7030' TVD (Top)
Gas: Initial open flow —— MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 9,574 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3950 psig (surface pressure) after —— Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature Date 4/19/13

17-06099

Were core samples taken? Yes_____ No X____ Were cuttings caught during drilling? Yes X____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL, Photo Density/Compensated Neutron/ Gamma Ray, Dual Laterolog/Gamma Ray

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,181' - 13,764' MD (1,368 holes)

Frac'd w/ 12,096 gals 15% HCL Acid, 139,262 bbls Slick Water carrying 609,599# 100 mesh, 2,456,579# 40/70 sand and 1,324,505# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	2110'		2196'
Big Injun	2197'		2446'
Gantz Sand	2447'		2626'
Fifty Foot Sandstone	2627'		2833'
Gordon	2834'		3183'
Fifth Sandstone	3184'		4012'
Balltown	4013'		4653'
Bradford	4654'		5116'
Benson	5117'		5364'
Alexander	5365'		6615'
Sycamore	6616'		6771'
Middlesex	6772'		6774'
Sonyea	6775'		6910'
Burket	6911'		6944'
Tully	6945'		7020'
Hamilton	7021'		7029'
Marcellus	7030'		7131' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-033-05636

Farm name: Bowyer, Matthew E. & Lisa D. Operator Well No.: Dawson Unit 2H

LOCATION: Elevation: 1,290' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 8,922' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2,371' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	375'	375'	521 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2,520'	2,520'	1026 Cu. Ft. Class A
Date Permit Issued: 7/11/2012	5-1/2" 20#	17,540'	17,540'	4412 Cu. Ft. Class H
Date Well Work Commenced: 9/30/2012				
Date Well Work Completed: 2/1/2013	2-3/8" 4.7#	7,266'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7095' TVD (deepest point drilled)				
Total Measured Depth (ft): 17,540' MD, 7057' TVD (BHL)				
Fresh Water Depth (ft.): 180'				
Salt Water Depth (ft.): None Available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 18', 178', 258', 298'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,044' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 7,601 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

4/11/13
Date

33-05636

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Winnie Unit 2H API#47-033-05615). Please reference the wireline logs submitted with Form WR-35 for Winnie Unit 2H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,267' - 17,474' MD (2,160 holes)

Frac'd w/ 15,624 gals 15% HCL Acid, 216,362 bbls Slick Water carrying 1,116,371# 100 mesh, 4,227,228# 40/70 sand and 2,471,790# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	est 1748'		1856'
Big Injun	est 1857'		2107'
Gantz Sand	est 2108'		2223'
Fifty Foot Sandstone	est 2224'		2329'
Gordon	est 2330'		2564'
Fifth Sandstone	est 2565'		2627'
Bayard	est 2628'		3311'
Speechley	est 3312'		3557'
Balltown	est 3558'		4082'
Bradford	est 4083'		4708'
Benson	est 4709'		4923'
Alexander	est 4924'		5064'
Elk	est 5065'		5627'
Rhinestreet	est 5628'		6448'
Sycamore	est 6449'		6710'
Middlesex	est 6711'		6838'
Burket	6839'		6865'
Tully	6866'		6977'
Hamilton	6978'		7043'
Marcellus	7044'		7095' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/22/13
API #: 47-033-05631

Farm name: Yeager, Charles E. Operator Well No.: George Unit 1H

LOCATION: Elevation: 1350' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 5,117' Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 9,690' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	352'	352'	489 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2,538'	2,538'	1033 Cu. Ft. Class A
Date Permit Issued: 6/6/2012	5-1/2" 20#	16,426'	16,426'	4098 Cu. Ft. Class H
Date Well Work Commenced: 10/17/12				
Date Well Work Completed: 2/19/13	2-3/8" 4.7#	7384'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7242' TVD				
Total Measured Depth (ft): 16,426' MD				
Fresh Water Depth (ft.): 103'				
Salt Water Depth (ft.): None reported off this pad				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 178', 257', 295'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,120' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A B
Final open flow 13,780 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Kaltie Kuster
Signature

5/2/13
Date

33.05631

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Stutler Unit 1H API#47-033-05586). Please reference the wireline logs submitted with Form WR-35 for Stutler Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7501' - 16,363' MD (1,656 holes)

Frac'd w/ 12,000 gals 15% HCL Acid, 236,278 bbls Slick Water carrying 1,435,550# 100 mesh,

5,121,340# 40/70 sand and 3,098,190# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Fifth Sandstone	est. 2649'		2699'
Bayard	est. 2700'		3345'
Speechley	est. 3346'		3592'
Balltown	est. 3593'		4098'
Bradford	est. 4099'		4672'
Benson	est. 4673'		4870'
Alexander	est. 4871'		5060'
Elk	est. 5061'		6488'
Sycamore	6489'		6912'
Burket	6913'		6937'
Tully	6938'		7052'
Hamilton	7053'		7119'
Marcellus	7120'		7242' TVD

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Office of Oil & Gas

MAY - - 2013

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4/2/13
API #: 47-085-09960

Farm name: Williamson, Andrew & Et Al Operator Well No.: Nicholson Unit 2H

LOCATION: Elevation: 1142' Quadrangle: Pullman 7.5'

District: Union County: Ritchie
Latitude: 2,675 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 4,704 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	334'	334'	464 Cu. Ft. Class A
Inspector: Sam Ward	9-5/8" 36#	2560'	2560'	1042 Cu. Ft. Class A
Date Permit Issued: 5/29/2012	5-1/2" 20#	13,929'	13,929'	3399 Cu. Ft. Class H
Date Well Work Commenced: 7/13/2012				
Date Well Work Completed: 9/21/2012	2-3/8" 4.7#	6816'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6,630' TVD (deepest point drilled)				
Total Measured Depth (ft): 6621' TVD, 13,929' MD (BHL)				
Fresh Water Depth (ft.): 85'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): No coal layers oberved				
Void(s) encountered (N/Y) Depth(s) No, N/A				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation N/A- Waiting on Pipeline Pay zone depth (ft)_____
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow_____MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure_____psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

4/19/13
Date

85-09960

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL, Dual Laterolog/Gamma Ray, and Photo Density/Compensated Neutron/Gamma Ray

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 6,812 - 13,863' MD (1,488 holes)

Frac'd w/ 13,500 gals 15% HCL Acid, 146,592 bbls Slick Water carrying 736,700# 100 mesh, 2,650,200# 40/70 and 1,459,500# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	2,115'		2,178'
Big Injun	2,179'		2,462'
Gantz Sand	2,463'		2,597'
Fifty Foot Sand	2,598'		2,709'
Gordon	2,710'		2,084'
Fifth Sandstone	3,085'		3,191'
Bayard	3,192'		3,961'
Speechley	3,962'		4,165'
Balltown	4,166'		4,636'
Bradford	4,637'		5,027'
Benson	5,028'		5,268'
Alexander	5,269'		5,467'
Elk	5,468'		5,815'
Rhinestreet	5,816'		6,240'
Sycamore	6,241'		6,410'
Middlesex	6,411'		6,522'
Burket	6,523'		6,555'
Tully	6,556'		6,576'
Marcellus	6,577'		6,630' TVD

WR-35
Rev (5-01)

DATE: 5/16/13
API # : 47-105-01365

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Blumig Family Associates Operator Well No.: HR 491

LOCATION: Elevation: 1110' Quadrangle: Reedy WV 7.5'

District: Spring Creek County: Wirt
Latitude: 2946' Feet South of 38 Deg. 55 Min. 00 Sec.
Longitude 581' Feet West of 81 Deg. 22 Min. 30 Sec.

Company: Hard Rock Exploration

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1244 Martins Branch Road				
Charleston WV, 25312				
Agent: Marc Scholl	13 3/8"	33'	33'	N/A
Inspector: Joe Taylor	9 5/8"	969'	969'	492ft3 CTS
Date Permit Issued: 12/21/12	7"	2741'	2741'	586ft3 CTS
Date Well Work Commenced: 2/7/13	4.5"	8056'	8056'	130 ft3
Date Well Work Completed: 3/17/13				
Verbal Plugging:	Gamma Log from (3990' MD , 4910'TVD) KOP-4045'			
Date Permission granted on:	Ran Gyro [illegible] (Surface)			
Rotary x Cable Rig				
Total Depth (feet): 8213'TMD, 4649'TVD				
Fresh Water Depth (ft.): None				
Salt Water Depth (ft.): 1550', 2088'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

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OPEN FLOW DATA

Producing formation Lower Huron Shale Pay zone depth (ft) 4366'MD- 8213'MD
4354'TVD – 4649' TVD
Gas: Initial open flow Trace MCF/d Oil: Initial open flow Bbl/d
Final open flow >2 MMCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: James Taylor Jr
By: President
Date: 5/17/2013

105-01365

Formation:	Top:	Bottom:
Soil/Sand/Shale	0	1960
Salt Sand	1960	2170
Big Lime	2170	2225
Big Injun	2225	2260
Dev. Shale	2260	2660
Coffee Shale	2660	2675
Devonian Shale	2675	4649
Lower Huron Section	4459	4649

All depths shown As TVD

2/17/13

Run casing with 16 stage Peake Completion open hole mechanical packer system with Total of 180jts of R-3 4.5" 11.6ppf M-80 to depth of 8056'kb. Could not get last two jts in hole due to stacking out again. Land casing hanger in head and ND BOP. MIRU Nabors Packer set crew. Pump 3 bbl water, and drop ball for shoe and 5 bbl water. Follow with N2 at 6-7k scf/min. Land ball and pressure up to 3150 psi with 143k scf N2 and hold pressure for packer operation. Pump 5 bbls cmt at 15 ppg and let air balance out. Pump 10 bbl cmt at 15 ppg and wait for air. Finish with 7 bbl cmt and 2-3 bbl water. Pumped total of 100sx type 1 3% CaCl

NOTE: THERE ARE NO PERFORATED INTERVALS IN THIS STYLE OF COMPLETION. THE PACKERS WILL SERVE AS STAGE ISOLATION AND THE BALL ACTIVATED MECHANICAL SLEEVES SERVE AS THE MEANS OF COMMUNICATION FROM WELLBORE TO FORMATION. ALL DEPTHS ARE INDICATED BELOW.

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Stage	Sleeve	Sleeve ID	Ball Size	Packer
1	8056.00	P/O Shoe	N/A	7870.80
2	7734.52	1.156	1.250	7643.77
3	7507.59	1.281	1.375	7411.24
4	7275.06	1.406	1.500	7179.21
5	7043.03	1.531	1.625	6946.88
6	6810.60	1.656	1.750	6714.45
7	6578.27	1.781	1.875	6482.12
8	6345.94	1.906	2.000	6249.79
9	6113.61	2.031	2.125	6017.46
10	5881.68	2.156	2.250	5785.43
11	5649.15	2.281	2.375	5553.00
12	5417.42	2.531	2.750	5321.27
13	5185.69	2.781	3.000	5099.04
14	4962.66	3.031	3.250	4832.11
15	4695.83	3.281	3.500	4599.58
16	4463.10	3.531	3.750	4366.95
Anchor				2906.60

03/13/13 MIRU Nabors. Start pumping at 25k scf/min and open Stg 1 shoe at 4435 psi. Continue to up rate and pump total of 1MM scf N2. Shut down (5min – 1806psi). Drop 1.25" ball for Stg 2. Start pumping ball down at 25k scf/min. Land ball at 163k scf. Up rate and open sleeve at 4010 psi. Up rate and pump total of 1MM scf N2. Shut down and change out high volumes. Load and drop 1.375" ball for Stg 3. Start pumping at 25k scf/min and land ball at 113k scf. Up rate and open sleeve at 3760 psi. Continue to increase rate and pump total of 1MM scf N2. Shut down and drop 1.5" ball for Stg 4. Repeat process for Stgs 4-Stg 16. (treatment Data on Pg. 3)

105-01365

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8
Max P	5880	5700	5897	5775	5723	5760	5802	5889
Avg P	5834	5530	5763	5622	5692	5700	5713	5812
Max R	89.0	89.0	103.9	104.7	107.4	107.0	103.5	100.0
Avg R	87.7	87.7	100.0	103.6	106.6	106.0	102.0	96.8
Shut In	1806-5min	N/A	2545-5min	1972-5min	N/A	N/A	2226-5min	N/A

	Stage 9	Stage 10	Stage 11	Stage 12	Stage 13	Stage 14	Stage 15	Stage 16
Max P	5598	5194	4880	5239	4881	5371	4180	3642
Avg P	5525	5158	4769	5154	4696	5293	4045	3628
Max R	107.0	106.0	105.0	109.0	103.2	105.0	107.6	105.0
Avg R	105.0	105.8	103.0	108.0	102.0	104.0	103.0	103.3
Shut In	N/A	1905-5min	N/A	N/A	1990-5min	N/A	N/A	1605-5min

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WR-35
Rev (5-01)

DATE: 5/16/13
API # : 47-105-01366

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name:_____Olen Archer_ Operator Well No.:_____HR 478_____

LOCATION: Elevation: _____695'_____ Quadrangle: _____Reedy WV 7.5'_____

District: _____Spring Creek_____ County: _____Wirt_____
Latitude: 14002'__Feet South of_38___Deg.__57____Min._30___Sec.
Longitude_2997'__Feet West of__81___Deg.__22__Min._30____Sec.

Company: __Hard Rock Exploration_____

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1244 Martins Branch Road				
Charleston WV, 25312				
Agent: Marc Scholl	13 3/8"	40'	40'	N/A
Inspector: Joe Taylor	9 5/8"	546''	546'	294ft3 CTS
Date Permit Issued: 12/21/12	7"	2325'	2325'	499ft3 CTS
Date Well Work Commenced: 2/18/13	4.5"	7838'	7838'	65 ft3
Date Well Work Completed: 4/12/13				
Verbal Plugging:	Gamma Log from (3545' MD , 4235'TVD) KOP-3660'			
Date Permission granted on:	Ran Gyro Log from (3549' – Surface)			
Rotary x Cable Rig				
Total Depth (feet): 8534'TMD, 4242'TVD				
Fresh Water Depth (ft.): 170'				
Salt Water Depth (ft.): 1640'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):_____N/A_____				

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OPEN FLOW DATA

Producing formation___Lower Huron_Shale__Pay zone depth (ft) 3877'MD- 8534'MD
3865'TVD – 4242' TVD
Gas: Initial open flow_ 200 MCF/d Oil: Initial open flow_____Bbl/d
Final open flow__>2__MMCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests____24_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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Signed: _____
By: President
Date: 5/17/2013

105-01366

Formation:	Top:	Bottom:
Soil/Sand/Shale	0	1586
Salt Sand	1586	1775
Big Lime	1775	1838
Big Injun	1838	1902
Dev. Shale	1902	2245
Coffee Shale	2245	2260
Devonian Shale	2260	4242
Lower Huron Section	4020	4242

All depths shown As TVD

2/27/13 Run 17 stg Packers Plus open hole hydraulic set packers and mechanical sleeves and 174 jts of 4.5" 11.6ppf R-3 casing to depth of 7842' KB and string stacked out. Try to move jt pulled 150klbs up and lost 4' on way back down. Call out Weatherford to place slips and cut pipe. Land and cut pipe making total pipe ran 7838' KB. RU and pump3 bbl water ahead dropped 1.25" balls for shoe. Pump 5 bbl water behind and start pumping N2 at 5k scf/min. Land ball in shoe and pressure up at 7k scf/min with 128k scf N2 to 3000 psi. Packers shut off gas rate at 1800 psi. Hold 3000 psi for packer operation. Bleed pressure off. RU to perform annular squeeze. Pump 50sx type 1 3% CaCl mixed at 15ppg – pumped total of 10.5 bbls (5 bbls then allow air to escape – then additional 5.5 bbl). Follow cmt with 2-3 bbls water.

NOTE: THERE ARE NO PERFORATED INTERVALS IN THIS STYLE OF COMPLETION. THE PACKERS WILL SERVE AS STAGE ISOLATION AND THE BALL ACTIVATED MECHANICAL SLEEVES SERVE AS THE MEANS OF COMMUNICATION FROM WELLBORE TO FORMATION. ALL DEPTHS ARE INDICATED BELOW.

Stage	Sleeve	Sleeve ID	Ball Size	Packer
1	7838.00	P/O Shoe	N/A	7692.24
2	7557.10	1.250	1.500	7460.50
3	7324.96	1.500	1.625	7186.46
4	7053.62	1.625	1.750	6912.92
5	6777.68	1.750	1.875	6681.08
6	6552.74	1.875	2.000	6412.04
7	6276.90	2.000	2.125	6180.90
8	6046.16	2.125	2.250	5949.66
9	5814.72	2.250	2.375	5674.12
10	5538.98	2.375	2.500	5442.48
11	5307.34	2.500	2.625	5166.64
12	5031.50	2.625	2.750	4891.80
13	4756.86	2.750	2.875	4661.06
14	4525.82	2.875	3.000	4429.32
15	4293.98	3.000	3.250	4153.18
16	4017.99	3.250	3.500	3877.29
17	3654.15	3.500	3.750	3513.55
Anchor				2047.80

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04/10/13 MIRU Nabors Stim Crew. Start pumping N2 at 33k scf/min. Pressure up to 5351 psi with approx. 220k and open pump out shoe for **Stg 1.** Continue pumping and increase rate to 90k scf/min (max rate due to truck problems). Shut down. Make repairs 600k scf away. Resume pumping at 1:30pm. Increase rate to 103k scf/min and pump total of 1.5 MM scf N2. Shut down and load 1.5" ball for **Stg 2.** Drop ball and let fall. Start pumping ball to sleeve with N2 at 22k scf/min. Land ball at 128k, up rate, and open sleeve at 4070 psi. Up rate and pump total of 1 MMscf N2. Shut down. Load 1.625" ball for **Stg 3.** Drop ball. Start pumping ball to sleeve at 22k scf/min. Land ball at 133k scf. Open sleeve at 4113 psi. Up rate and pump total of 1 MM scf N2. Back rate down and drop 1.75" ball for **Stg 4.** Repeat process for Stgs 4- Stg 16 (did not pump stg 17 due to its placement in hole).

105-01366

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8
Max P	5016	4868	4648	4739	4430	4490	4413	4445
Avg P	4801	4766	4611	4612	4406	4385	4346	4415
Max R	103.0	103.1	104.2	106.3	103.6	105.5	101.6	101.8
Avg R	101.6	101.3	102.4	104.8	103.0	103.6	101.1	101.5
Shut In	1680-10min	2800-isip	N/A	N/A	1744-5min	N/A	N/A	1793-5min

	Stage 9	Stage 10	Stage 11	Stage 12	Stage 13	Stage 14	Stage 15	Stage 16
Max P	4509	4291	4124	4160	4236	3715	3573	3399
Avg P	4444	4283	4084	4113	4111	3656	3512	3378
Max R	103.3	102.6	102.3	107.0	105.5	105.3	105.0	108.0
Avg R	101.5	102.0	101.8	104.8	102.6	103.7	102.7	106.1
Shut In	N/A	N/A	1787-5min	N/A	N/A	N/A	1758-10min	1796-5min

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Environmental Protection

WR-35
Rev (5-01)

DATE: 5/16/13
API # : 47-087-04727

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: George Scott Operator Well No.: HR 490

LOCATION: Elevation: 682' Quadrangle: Reedy WV 7.5'

District: Reedy County: Roane
Latitude: 11055' Feet South of 38 Deg. 55 Min. 00 Sec.
Longitude 9301' Feet West of 81 Deg. 22 Min. 30 Sec.

Company: Hard Rock Exploration

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1244 Martins Branch Road				
Charleston WV, 25312	20"	20'	20'	N/A
Agent: Marc Scholl	13 3/8"	86'	86'	51ft3 CTS
Inspector: Ed Gainer	9 5/8"	580'	580'	300ft3 CTS
Date Permit Issued: 12/18/12	7"	2329'	2329'	534ft3 CTS
Date Well Work Commenced: 1/29/13	4.5"	7419'	7419'	123 ft3
Date Well Work Completed: 2/25/13				
Verbal Plugging:	Gamma Log from (3500' MD , 4500'TVD)			
Date Permission granted on:	Ran Gyro Log from (3500' – Surface)			
Rotary x Cable Rig				
Total Depth (feet): 7519'TMD, 4232'TVD				
Fresh Water Depth (ft.): 37'				
Salt Water Depth (ft.): 1333', 1523				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

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OPEN FLOW DATA

Producing formation Lower Huron Shale Pay zone depth (ft) 4154'MD- 7519'MD
4089'TVD – 4232' TVD
Gas: Initial open flow Trace MCF/d Oil: Initial open flow Bbl/d
Final open flow >2 MMCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure psig (surface pressure) after Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:
By: President
Date: 5/17/2013

87-04727

Formation:	Top:	Bottom:
Soil/Sand/Shale	0	1550
Salt Sand	1550	1772
Big Lime	1772	1817
Big Injun	1817	1840
Dev. Shale	1840	2234
Coffee Shale	2234	2248
Devonian Shale	2248	4232
Lower Huron Section	4070	4232

All depths shown As TVD

2/6/13

Run 4.5" R-3 11.6ppg m-80 casing (183 jts) with 14 stg Packers Plus mechanical packer system to depth of 7419' KB. Land casing hanger w/8" 11.6ppf nipple. Drop 5 bbl water and 2 balls for pump out shoe. Land balls at 7500 scf/min and pressure up to 3100 psi. Pumped 145k scf N2. Finish at 5:40am – hold pressure for 20 min. Packers shut off gas rate . RU to perform annular cmt squeeze. Pump 5 bbls type 1 3% CaCl, let air out, pump 10 bbls, and then 7.5 bbls at 15 ppg (total 22.5 bbls cmt). Follow cmt with 3 bbls water.

NOTE: THERE ARE NO PERFORATED INTERVALS IN THIS STYLE OF COMPLETION. THE PACKERS WILL SERVE AS STAGE ISOLATION AND THE BALL ACTIVATED MECHANICAL SLEEVES SERVE AS THE MEANS OF COMMUNICATION FROM WELLBORE TO FORMATION. ALL DEPTHS ARE INDICATED BELOW.

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Stage	Sleeve	Sleeve ID	Ball Size	Packer
1	7419.00	P/O Shoe	N/A	7242.42
2	7156.08	1.500	1.625	7025.37
3	6934.23	1.625	1.875	6793.23
4	6666.89	1.875	2.125	6538.88
5	6412.34	2.125	2.250	6315.71
6	6180.16	2.250	2.375	6083.56
7	5962.31	2.375	2.500	5834.80
8	5718.35	2.500	2.625	5595.12
9	5472.47	2.625	2.750	5335.57
10	5204.32	2.750	2.875	5111.92
11	4986.17	2.875	3.000	4874.26
12	4741.41	3.000	3.250	4622.81
13	4513.46	3.250	3.500	4390.46
14	4278.11	3.500	3.750	4154.01
Anchor				2632.00

02/21/13

MIRU Nabors Stim crew. Pump at 24k scf/min and open Stg 1 shoe at 5324 psi. Slowly increase rate and pump total of 1MM scf N2. Shut down and load balls. Drop 1.625" ball for Stg 2. Start pumping ball down at 20k scf/min. Land ball at 145k scf. Continue pumping and open sleeve at 4572 psi. Up rate and pump total of 1MM scf N2. Back rate down to 4k scf/min and drop 1.875" ball for Stg 3. Pump ball to sleeve at 22k scf/min and land ball at 140k scf N2. Up rate and open sleeve at 4181 psi. Up rate and pump total of 1MM scf N2. Repeat process for STGs 4 – Stg 14.

	Stg1	Stg2	Stg3	Stg4	Stg5	Stg6	Stg7	Stg8	Stg9	Stg10	Stg11	Stg 12	Stg13	Stg 14
Max P	5784	5836	5698	5848	5759	5848	5688	5855	5608	5897	5865	5850	5402	4745
Avg P	5717	5714	5620	5575	5636	5754	5527	5768	5405	5795	5586	5808	5368	4700
MaxR	69.2	90.8	86.6	101.6	95.6	95.5	101.2	102	106	100	100	90.1	104	107.7
Avg R	67.4	88	85.2	99.4	95.2	91.2	96.2	96.1	105.9	94	98.9	89.1	103	106
Shut in	3990-instant	N/A	N/A	2441-5min	N/A	N/A	2449-5min	N/A	N/A	2379-5min	N/A	N/A	2240 8min	1989-5min